

Measuring instrument - EEM-MB371-EIP - 2907976


Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Multi-functional energy measuring device without display with direct Rogowski connection and integrated Modbus/TCP and EtherNet/IP™ interface for measuring electrical parameters in low-voltage installations up to 690 V.



Key Commercial Data

| | |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc |
| GTIN |  4 055626 718156 |
| GTIN | 4055626718156 |

Technical data

Dimensions

| | |
|--------|-------|
| Width | 90 mm |
| Height | 80 mm |
| Depth | 82 mm |

Ambient conditions

| | |
|------------------------------------------------|-------------------------|
| Ambient temperature (operation) | -10 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Maximum altitude | ≤ 2000 m |
| Max. permissible relative humidity (operation) | ≤ 95 % (non-condensing) |
| Max. salt spray content | ≤ 2.5 % |
| Degree of protection | IP30 (Housing) |

Input data

| | |
|--------------------------|------------------------------------------------|
| Measuring principle | True r.m.s. value measurement |
| Acquisition of harmonics | up to 63rd harmonic |
| Measured value | AC sine (50/60 Hz) |
| Input name | Voltage measuring input V1, V2, V3 |
| Input voltage range | 35 V AC ... 690 V AC (Phase/Phase) |
| | 20 V AC ... 400 V AC (Phase/neutral conductor) |

Measuring instrument - EEM-MB371-EIP - 2907976

Technical data

Input data

| | |
|-------------------------------------------------------|----------------------------------------------------------|
| | 60 V AC ... 2000000 V AC (primary) |
| | 60 V AC ... 400 V AC (secondary) |
| Surge voltage capacity | 760 V AC |
| Precision | 0.2 % |
| Input name | Current measurement RC1, RC2, RC3 |
| Input current | 4000 A |
| Response threshold from measuring range nominal value | 5 A |
| Precision | < 1 % |
| | 1 % |
| Reactive power (IEC 62053-23) | Class 2 |
| Description of the input | Digital input in accordance with IEC/EN 61131-2 (type 3) |
| Number | 1 |
| Voltage input signal | 0 V DC ... 30 V DC |
| Current input signal | 2 mA ... 15 mA |

Output data

| | |
|-----------------------|-----------------------------------------------------------|
| Output description | Digital output in accordance with IEC/EN 61131-2 (type 3) |
| Number | 1 |
| Current output signal | ≤ 100 mA |

General

| | |
|----------------------|--------------------------------------------------------------------|
| Supply voltage range | 100 V AC ... 230 V AC (# 20 %) |
| Power consumption | ≤ 4 W |
| Mains type | 3-phase (3 or 4-wire), 2-phase (2-wire), and single-phase (1-wire) |
| Color | gray |
| Conformance | CE-compliant |
| Test voltage | 4 kV AC (50 Hz, 1 min.) |
| Product family | EMpro |

Connection data

| | |
|----------------------------------|-------------------------------------------|
| Connection name | Current / voltage / supply |
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.2 mm ² ... 6 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 4 mm ² |
| Conductor cross section AWG | 24 ... 10 |
| Torque | 0.5 Nm ... 0.6 Nm |

Connection data 2

| | |
|-------------------|-----------------------------|
| Connection name | Digital I/O / communication |
| Connection method | Screw connection |
| Stripping length | 7 mm |

Measuring instrument - EEM-MB371-EIP - 2907976

Technical data

Connection data 2

| | |
|----------------------------------|----------------------|
| Screw thread | M3 |
| Conductor cross section solid | 0.14 mm² ... 2.5 mm² |
| Conductor cross section flexible | 0.14 mm² ... 1.5 mm² |
| Conductor cross section AWG | 26 ... 14 |
| Torque | 0.5 Nm ... 0.6 Nm |

UL data

| | |
|----------------|------------|
| Operating mode | Indoor use |
|----------------|------------|

Standards and Regulations

| | |
|-------------|--------------|
| Conformance | CE-compliant |
|-------------|--------------|

Environmental Product Compliance

| | |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

| | | |
|-----|--|---------------------|
| EAC | | RU*DE*08.B.00734/19 |
|-----|--|---------------------|